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Date of Deposit 7/14/03

Our File No. 9281-4603
Client Reference No. N US02004

PATENT APPLICATION TRANSMITTAL LETTER

To the Commissioner for Patents:

Transmitted herewith for filing is the patent application of Naoya Hasegawa and Eiji Umetsu for Magnetic Sensor With Second Antiferromagnetic Layer Having Smaller Depth In Height Direction Than Free Layer And Manufacturing Method Thereof.

Enclosed are:

- Preliminary Amendment and one sheet corrected drawings (corrections to the figures are marked in red)
- 76 pages of application (including title page and Abstract), 19 sheets of formal drawings and the following Appendices: n/a
- Declaration and Power of Attorney for Patent Application
- Assignment transmittal letter and Assignment of the invention to: Alps Electric Co., Ltd.
- Submission of Certified Copy of Priority Document and certified copy of Japanese Application No. 2002-206544
- Information Disclosure Statement, PTO-1449, and reference A1-A2

Claims as Filed	Col. 1	Col. 2
For	No. Filed	No. Extra
Basic Fee		
Total Claims	13-20	0
Indep. Claims	4-3	1
Multiple Dependent Claims Present		

*If the difference in col. 1 is less than zero, enter "0" in col. 2.

Small Entity	
Rate	Fee
	\$ 370
x\$9=	\$
x\$42=	\$
+\$140=	\$
Total	\$

Other Than Small Entity	
Rate	Fee
	\$ 750
x\$18=	\$
x\$84=	\$84
+\$280=	\$
Total	\$834

- Please charge my Deposit Account No. 23-1925 in the amount of \$ _____. A duplicate copy of this sheet is enclosed.
- A check in the amount of \$834.00 to cover the filing fee is enclosed.
- The Commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 23-1925. A duplicate copy of this sheet is enclosed.
 - Any additional filing fees required under 37 CFR § 1.16.
 - Any patent application processing fees under 37 CFR § 1.17.
- The Commissioner is hereby authorized to charge payment of the following fees during the pendency of this application or credit any overpayment to Deposit Account No. 23-1925. A duplicate copy of this sheet is enclosed.
 - Any filing fees under 37 CFR § 1.16 for presentation of extra claims.
 - Any patent application processing fees under 37 CFR § 1.17.
 - The issue fee set in 37 CFR § 1.18 at or before mailing of the Notice of Allowance, pursuant to 37 CFR § 1.311(b).

Date



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PATENT TRADEMARK OFFICE

Gustavo Siller, Jr.
BRINKS HOFER GILSON & LIONE
Registration No. 32,305

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Date of Deposit 7/14/63

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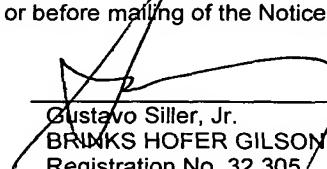
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Date

7/14/63


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Registration No. 32,305/



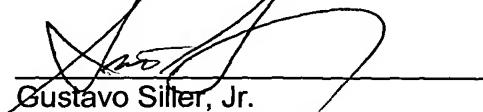
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deemed necessary for any reason relating to this material, the Commissioner is hereby authorized to deduct said fees from Brinks Hofer Gilson & Lione Deposit Account No. 23-1925.

Applicants respectfully request that the Examiner review the entire disclosure of these documents and make them of record.

Respectfully submitted,



~~Gustavo Siller, Jr.~~
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Attorney for Applicants

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